# MSSD
## Master of Science in Sustainable Design

### 1 Fall 1st Year (48 units)

**Pre-Requisite:** (9 units)

48-315 | Environment 1: Climate & Energy (9 units)

**Core:** (36 units)

48-722 | Building Performance Modeling (12)
48-729 | Productivity, Health & the Quality of Buildings (12)
48-795 | LEED, Green Design and Building Rating in a Global Context (6) *
12-748 | Mechanical & Electrical System Design for Buildings (6)

**Selectives:** (6 - 12 units)**

Selectives 1

### 2 Spring 1st Year (48 units)

**Core:** (18 units)

48-723 | Performance of Advanced Building Systems (9)
48-752 | Zero Energy House (9)

**Project (12 Units)**

48-731 | MSSD Synthesis Prep (12)

**Selectives:** (12 - 18 units)**

Selectives 2 & 3

### 3 Summer (24 units)

**Project (24 Units)**

48-732 | MSSD Synthesis (24)

### Core Selectives**

**Category One: Environmental Economics, Tools & Calculations Project**

12-712 | Introduction to Sustainable Engineering
12-714 | Environmental Life-Cycle Assessment
12-569 | GIS / CAFM
12-721 | Building Controls & Diagnostics
48-738 | Special Topics: Ecological Footprints
62-707: Variational Geometry I

**Category 2: Environmental Law & Policy**

48-448 | History of Sustainable Architecture
73-148 or 90-803 | Environmental Economics
80-244 | Environmental Ethics
90-765 | Cities, Technology & the Environment
90-768 | Energy & the Environment
90-798 | Environmental Policy & Planning
90-808 | Energy Policy

**Category 3: Sustainable Design & Development**

48-725 | Real Estate Design & Development
62-715 | Ecologies: Performative Techniques for Shaping the Built Environment
90-743 | Urban & Regional Development
90-789 | Sustainable Community Development

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**Program Description:**

The Master of Science in Sustainable Design degree program provides an integrated education that strives to prepare its graduates for careers that will reshape the built environment in a sustainable fashion. This challenging program is intended for recent graduates and practicing professionals with degrees related to the built environment including architecture, landscape architecture, ecology, engineering, construction, interior architecture/design, facilities management and others.

**LEED** Accredited Professionals are not required to take this class. A (6) or (9) unit Selective must be substituted.

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**Program Requirements:**

In addition to the standard requirements for all graduate students in the School of Architecture, students in the MSSD program must satisfy the following:

- Students must complete a minimum of 120 units of course work including a minimum of 21 units of Core Selectives coursework for graduation.
- Students must complete a minimum residency requirement of two (2) academic semesters.
- Full-time status (minimum 36 units per semester) is required during the residency period.
- All course substitutions must be approved by the program Track Chair.

**MSSD students must take at least one (1) selective from each category, with a cumulative total of 21 units.**

The selective courses listed here are pre-approved as meeting the criteria for MSSD Core Selectives. Students may elect to take courses not listed here, pending approval from the MSSD Track Chair.

Be advised that changes to these curricular offerings take place regularly. Visit the University’s Schedule of Classes for up-to-date information.

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November 2016